

We claim:

1. (Amended) A separator for a solid electrolyte condenser, comprising:

a nonwoven fabric containing polyester resin or its derivative; and

a diameter of fiber of said nonwoven fabric is 0.01 to 3 dtex.

2. The separator according to claim 1, wherein said nonwoven fabric contains said polyester resin of polyethyleneterephthalate family containing carboxyalkoxybenzenesulfonic acid and its derivatives as a copolymerization ingredient.

3. The separator according to claim 2, wherein said carboxyalkoxybenzenesulfonic and its derivatives are 3,5-dicarboxymethoxybenzenesulfonic acid and its derivatives.

4. The separator according to claim 1, wherein said nonwoven fabric contains said polyester resin of polyethyleneterephthalate family containing alkylglycol and its derivatives as a copolymerization ingredient.

5. The separator according to claim 4, wherein said alkylglycol and its derivatives are diethyleneglycol and its derivatives.

6. (Amended) The separator according to claim 1, wherein said nonwoven fabric contains:

polyester resin of polyethyleneterephthalate family containing carboxyalkoxybenzenesulfonic acid and its derivatives as a copolymerization ingredient; and

polyester resin of polythieleneterephthalate family

containing alkylglycol and its derivatives as a copolymerization ingredient.

7. The separator according to claim 6, wherein a concentration of said polyester resin of polyethylenephthalate family containing carboxyalkoxybenzenesulfonic acid and its derivatives as a copolymerization ingredient is greater than or equal to 50 weight %.

8. (Amended) The separator according to claim 1, wherein: a thickness of said separator is in a range of 20 to 100 μm ; and

a density of said separator is in a range of 0.30 to 0.70 g/cm³.

9. (Amended) A solid electrolyte condenser, comprising:
an anode foil;
a cathode foil;
a separator between said anode foil and said cathode foil;
solid electrolyte between said anode foil and said cathode foil;
a surface of said anode foil is etched and insulating oxide film is formed on said surface;
a surface of said cathode foil is at least etched;
said separator is sandwiched between said anode foil and said cathode foil and is rolled together with said anode foil and said cathode foil to form a condenser element; and
said solid electrolyte is provided between said anode foil and said cathode foil.

10. (Amended) The solid electrolyte condenser according

to claim 9, wherein said solid electrolyte is a conductive polymer containing at least one material selected from among tetracyanoquinodimethane complex salt and its derivatives, polypyrrole and its derivatives, polyaniline and its derivatives, polythiophene and its derivatives, polyethelenedioxothiophene and its derivatives, polyethelenedioxophenethiophenepolystyrenesulfonate and its derivatives.

11. (Amended) The solid electrolyte condenser according to claim 10, wherein said conductive polymer contains at least one binder ingredient selected from among polyvinylalcohol, polyvinylacetate, polycarbonate, polyacrylate, polymethacrylate, polystyrene, polyurethane, polyacrylonitrile, polybutadiene, polyisoprene, polyether, a plurality of polyesters, polyamide, butylal resin, silicone resin, malamine resin, alkyld resin, cellulose, nitrocellulose, a plurality of epoxy resins, and all of their derivatives.

12. (Amended) The solid electrolyte condenser according to claim 11, wherein said plurality of polyesters are selected from among polyethyleneterephthalate, carbonyl modified polyethyleneterephthalate, sulfonic acid modified polyethyleneterephthalate, polybutyleneterephthalate, carbonyl modified polyethyleneterephthalate, sulfonic acid modidified polybutyleneterephthalate.

13. (Amended) The solid electrolyte condenser according to claim 11, wherein said plurality of epoxy resins are selected from among bisphenol A type epoxy, bisphenol F type

epoxy, alicyclicepoxy, nitrile rubber modified epoxy.

14. (New) The solid electrolyte condenser according to claim 9, wherein:

said separator is a nonwoven fabric containing polyester resin or its derivative; and

a diameter of fiber of said nonwoven fabric is 0.01 to 3 dtex.

15. (New) The solid electrolyte condenser according to claim 9, wherein said nonwoven fabric contains said polyester resin of polyethyleneterephthalate family containing carboxyalkoxybenzenesulfonic acid and its derivatives as a copolymerization ingredient.

16. (New) The solid electrolyte condenser according to claim 15, wherein said carboxyalkoxybenzenesulfonic and its derivatives are 3,5-dicarboxymethoxybenzenesulfonic acid and its derivatives.

17. (New) The solid electrolyte condenser according to claim 9, wherein said nonwoven fabric contains said polyester resin of polyetheneterephthalate family containing alkylglycol and its derivatives as a copolymerization ingredient.

18. (New) The solid electrolyte condenser according to claim 17, wherein said alkylglycol and its derivatives are diethyleneglycol and its derivatives.

19. (New) The solid electrolyte condenser according to claim 9, wherein said nonwoven fabric contains:

polyester resin of polyethyleneterephthalate family

containing carboxyalkoxybenzenesulfonic acid and its derivatives as a copolymerization ingredient; and

polyester resin of polythylene terephthalate family containing alkylglycol and its derivatives as a copolymerization ingredient.

20. (New) The solid electrolyte condenser according to claim 19, wherein a concentration of said polyester resin of polyethylenephthalate family containing carboxyalkoxybenzenesulfonic acid and its derivatives as a copolymerization ingredient is greater than or equal to 50 weight %.

21. (New) The solid electrolyte condenser according to claim 9, wherein:

a thickness of said separator is in a range of 20 to 100 μm ; and

a density of said separator is in a range of 0.30 to 0.70 g/cm³.